

#3. Eastern Pacific.

J 4672-4702

Nov. 21st to Dec. 26th, 1904.

N^o 3.

Dr. 4672. - Dr. 4702.

Hy. 4509. - Hy. 4518.

12.000 - 11
12
81



Next Hy = ~~4517~~

4518 Dec. 22

4519

14 Dec.

4513

15 Dec.

42.20
85.50
630

$$\begin{array}{r}
 1760: 4800 = 2 \\
 \underline{3400} \\
 1400
 \end{array}$$

$$\begin{array}{r}
 2 \\
 \hline
 52 \\
 22 \\
 \hline
 74 \\
 \hline
 21
 \end{array}$$

$$5 : 2 = 2$$

$$\begin{array}{r}
 20: 77 = 3 \\
 \underline{60} \\
 17
 \end{array}$$

$$[7 - 1.500]$$

No. *Dr. 4672 cont.* Date *21 Nov. 1904.*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom *(For Sounding data see previous*Bottom temperature *Record book)*

No. of thermometer Cor.

Corrected temperature

Air *73°* Surface *67°* DriftTrawl or dredge *Tanner intermediate self closing*
Net.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>1: 10.20</i>	<i>2: 07.10</i>
		100	<i>14.00</i>	<i>04.05</i>
		200	<i>17.25</i>	<i>2: 01.10</i>
		300	<i>20.30</i>	<i>59.15</i>
		400	<i>1: 23.40</i>	<i>1: 55.20</i>
		500		
		600	<i>Let go Messenger</i>	
		700		
		800	<i>at 1: 51.20</i>	
		900		
		1000	<i>= Towing open</i>	
		1100		
		1200	<i>about 32 min.</i>	
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. 13° 11.6' S		2500		
Long. 78° 18.3' W		2600		
Fine		2700		
Gentle breeze, SE		2800		
Moderate Sea		2900		
Bar. 29.85		3000		
Therm. at 76		3100		
Course, NNE		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *Dr. 4673* Date *21 Nov. 04*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *71°* Surface *67°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			<i>P. M.</i>	
<i>5' Bobbinett</i>		0	<i>7-02-30</i>	<i>7-52-00</i>
<i>2' Silk Kofoid's</i>		100	<i>06-00</i>	<i>47-00</i>
<i>from dredging boom</i>		200	<i>9-30</i>	<i>- 43-30</i>
<i>lowered to</i>		300	<i>13-05</i>	<i>39-45</i>
<i>300 fms</i>		400	<i>7-16-30</i>	<i>7-36-30</i>
<i>with 400 fms. cable.</i>		500	<i>Towing 20 min</i>	
		600		
		700		
<i>5' Surface Net</i>		800	<i>Out P.M. In</i>	
<i>Electric Lt attached</i>		900	<i>7-01-00</i>	<i>7-21-00</i>
<i>from port boom</i>		1000		
		1100		
<i>1-12" Kofoid #12 Silk</i>		1200	<i>Towing 20 min</i>	
<i>1-74" #20 "</i>		1300		
<i>towing astern</i>		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Clear - Smooth sea
 Gentle breeze from S.E.
 Bar. 29.82
 Therm. attached 76°

Position
 Lat 12° 30.5' S. ✓
 Long 77° 49.4' W.

DeLong

No. 4673 Contd. Date 21 Nov/04

Lucas

Machine.

Reel.

Lucas

Turns

Cor. +

Depth 458 fms.

Shot or lead 35 lbs. & Telegraph Tubes

Bottom Rocky Bottom

Bottom temperature 43°

No. of thermometer

98241

Cor.

Corrected temperature

42.8

Air 71°

Surface

67°

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7-54-45	8: 6-20	0		
55-00	5-10	100		
56-15	4-10	200		
57-20	3-5	300		
58-30	1-55	400		
7-59-00	8- 1-10	438 500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. Long.	12° 30.5' S 77° 49.4' W.	2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

De Long 66.5
 No. 4810. Date 22 July 04.
 Machine. Reel.
 Turns Cor.+ Depth 1949 fath.
 Shot or lead 60^{lb} Telegraphic Tapes.
 Bottom fine dk gn. M.
 Bottom temperature 35.8°
 No. of thermometer 98241 Cor. 6
 Corrected temperature 35.2
 Air 67° Surface 67° Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
	7.52.00	0		
	58.4	100		
	59	200		
	3	300		
	52.4	400		
	50.4	500		
	48.4	600		
	46.4	700		
	44.4	800		
	42.4	900		
	40.4	1000		
	38.4	1100		
	36.4	1200		
	34.4	1300		
	32.4	1400		
	30.4	1500		
	28.4	1600		
	26.4	1700		
	24.4	1800		
	22.4	1900		
	20.4	2000		
	18.4	2100		
	16.4	2200		
	14.4	2300		
	12.4	2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Lat.</i>	<i>17° 26.6' S.</i>	2500	✓	
<i>Long.</i>	<i>78° 34.5' W.</i>	2600		
<i>Fath.</i>		2700		
<i>Coast Range, S.E.</i>		2800		
<i>Pointe à la Poudre.</i>		2900		
<i>Bay.</i>	<i>29.91</i>	3000		
<i>Time 11</i>	<i>720</i>	3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1024

REMARKS:

No. *Dr. 467*Date *22 Nov. 1904.**Lucas.* Machine. Reel. *Lucas.*Turns Cor.+ Depth *2338 fms.*Shot ~~or lead~~ *60 lb and 70 lb. Tubes.*Bottom *fine dk. gy. M.*Bottom temperature *35.7°*No. of thermometer *98241* Cor. *6*Corrected temperature *34.1*Air *77°* Surface *68°* DriftTrawl ~~or dredge~~ *6' Bl. - 17 lb. net*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am. DOWN.	UP.		Am. DOWN.	UP.
<i>9: 20.00</i>	<i>9: 24.10</i>	0	<i>10:30.20</i>	<i>2 11.00</i>
<i>21.20</i>	<i>22.15</i>	100	<i>34.10</i>	<i>27-00</i>
<i>22.20</i>	<i>20.30</i>	200	<i>37.30</i>	<i>23-30</i>
<i>23.20</i>	<i>18.50</i>	300	<i>40.55</i>	<i>20-10</i>
<i>24.10</i>	<i>17.10</i>	400	<i>44.10</i>	<i>16-40</i>
<i>25.05</i>	<i>15.45</i>	500	<i>47.30</i>	<i>13-00</i>
<i>26.00</i>	<i>14.15</i>	600	<i>51.00</i>	<i>10-05</i>
<i>27.00</i>	<i>12.45</i>	700	<i>54.25</i>	<i>7-45</i>
<i>27.55</i>	<i>11.15</i>	800	<i>57.00</i>	<i>12-45</i>
<i>28.50</i>	<i>09.40</i>	900	<i>11: 00.20</i>	<i>9-40</i>
<i>29.50</i>	<i>08.05</i>	1000	<i>03.15</i>	<i>4-40</i>
<i>30.50</i>	<i>06.30</i>	1100	<i>07.20</i>	<i>1-00-15</i>
<i>31.55</i>	<i>04.45</i>	1200	<i>11.00</i>	<i>1-50-00</i>
<i>33.00</i>	<i>03.05</i>	1300	<i>14.20</i>	<i>5-40</i>
<i>34.05</i>	<i>10:01.20</i>	1400	<i>17.40</i>	<i>4-00</i>
<i>35.10</i>	<i>9:59.40</i>	1500	<i>21.00</i>	<i>4-00</i>
<i>36.15</i>	<i>10:00.00</i>	1600	<i>24.00</i>	<i>4-00</i>
<i>37.20</i>	<i>58.15</i>	1700	<i>28.00</i>	<i>3-00</i>
<i>38.25</i>	<i>56.30</i>	1800	<i>31.20</i>	<i>35-15</i>
<i>39.55</i>	<i>54.50</i>	1900	<i>34.40</i>	<i>31-30</i>
<i>40.45</i>	<i>53.05</i>	2000	<i>37.50</i>	<i>27-45</i>
<i>41.55</i>	<i>51.20</i>	2100	<i>41.10</i>	<i>24-05</i>
<i>43.00</i>	<i>49.35</i>	2200	<i>44.20</i>	<i>20-40</i>
<i>44.00</i>	<i>48.00</i>	2300	<i>48.00</i>	<i>17-10</i>
<i>9: 44.25</i>	<i>9:47.00</i>	<i>2338</i>	<i>11:51.05</i>	<i>15-00</i>
		<i>2400</i>		

12-14.4 S - 49-43.4 W

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. 12° 19.3' S.		2500	11-54-30	5-15
Long. 78° 45' W.		2600	57-22	1 3
Fair		2700	12-00-05	58-40
Gentle breeze in SE.		2800	12-37	11
Therm. 60		2900	07-00	58-40
Bar. 29.90		3000	17-12	18-12-10
Therm. 75°		3100		
Dr. Course N 1/2 E.		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Di No. 4678

Date 22 Feb. 1901.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom *fine sand & shells*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 67° Surface 68° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. <i>PM</i>	UP.
		0	7-1-10	7-56-45
		100	5-2-30	4-4-00
		200	2-8-30	4-2-15
		300	1-1-15	3-1-30
		400	7-1-15	7-36-0
		500		
		600		
		700		
		800		
		900		
		1000		
		1100	<u>Out</u>	<u>In.</u>
		1200	7-0-40	7-31-0
		1300		
		1400		
		1500		
		1600		
		1700		
		1800	<u>Out</u>	<u>In.</u>
		1900	7-0-40	7-31-0
		2000		
		2100		
		2200		
		2300		
		2400		

from Pos. 12.
duct. sign. 12.
from Pos. 12.

1254 S. 78. 00 W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

SF

No. *Dr. 4675* ^{W.D.} Date *22 Nov. 04*Line *Lucas* Machine. Reel. *Lucas*Turns Cor.+ Depth *3120 fms.*Shot or lead *60 lb and Talcott's* TapesBottom *fine dk. gy. M.*Bottom temperature *Therm. fath.*No. of thermometer *98241* Cor.

Corrected temperature

Air *67°* Surface *68°* DriftTrawl or dredge *See previous pages*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.53.50</i>	<i>9.21.15</i>	0		
<i>55.00</i>	<i>20.00</i>	100		
<i>56.00</i>	<i>19.00</i>	200		
<i>57.00</i>	<i>18.00</i>	300		
<i>57.50</i>	<i>17.00</i>	400		
<i>58.35</i>	<i>15.55</i>	500		
<i>59.30</i>	<i>14.50</i>	600		
<i>6.00.25</i>	<i>13.40</i>	700		
<i>01.20</i>	<i>12.30</i>	800		
<i>02.15</i>	<i>11.15</i>	900		
<i>?</i>	<i>10.00</i>	1000		
<i>03.55</i>	<i>08.45</i>	1100		
<i>05.00</i>	<i>07.20</i>	1200		
<i>06.00</i>	<i>06.00</i>	1300		
<i>07.00</i>	<i>04.00</i>	1400		
<i>08.00</i>	<i>9.01.45</i>	1500		
<i>09.05</i>	<i>59.35</i>	1600		
<i>10.15</i>	<i>57.30</i>	1700		
<i>11.20</i>	<i>55.30</i>	1800		
<i>12.25</i>	<i>53.20</i>	1900		
<i>13.30</i>	<i>51.30</i>	2000		
<i>14.35</i>	<i>49.40</i>	2100		
<i>15.00</i>	<i>46.50</i>	2200		
<i>17.10</i>	<i>45.55</i>	2300		
<i>8.18.20</i>	<i>8.44.00</i>	2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8. 19.30	8. 42.00	2500		
20.45	40.00	2600		
22.00	38.00	2700		
23.10	36.00	2800		
24.20	34.00	2900		
25.35	32.10	3000		
26.50	29.50	3100		
8. 27.15	8. 29.15	3120 3200		
		3300		
Lat. 12° 54' S.		✓ 3400		
Long. 78° 32.8' W.		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. Hy. 4510 Date 4 Dec. 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 251

Shot or lead 60 lb. Trawl or dredge

Bottom Fine light gray silt

Bottom temperature 32.5

No. of thermometer 98241 Cor. 6

Corrected temperature 36.5

Air 70° Surface 70° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7-01-00	8-13-00	0		
1-55	7-15	100		
2-50	8-15	200		
3-45	7-10	300		
4-40	6-55	400		
5-35	5-50	500		
6-30	3-55	600		
7-25	2-45	700		
8-20	1-35	800		
9-15	0-25	900		
10-10	59-16	1000		
11-05	57-15	1100		
12-00	55-00	1200		
13-00	53-00	1300		
14-00	53-25	1400		
15-00	51-40	1500		
16-00	49-55	1600		
17-00	48-10	1700		
18-00	46-25	1800		
19-00	44-40	1900		
20-00	42-55	2000		
21-00	41-10	2100		
22-00	39-25	2200		
23-00	37-40	2300		
24-00	35-55	2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7-15-18</i>		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Re-sounding;
Lat. 13° 48' 12" S. ✓
Long. 80° 13' 00" W.

No. *Dr. 4676* Date *Dec 5 /04*
Lucas Machine. Reel. *Lucas*

Turns Cor.+ Depth *2714 fath.*

Shot or lead *60 lb 4 Fath. 1/2 lb*

Bottom *Fine dark brown ooze*

Bottom temperature *36°*

No. of thermometer *98241* Cor. *C*

Corrected temperature *36.4*

Air *70°* Surface *69°* Drift

Trawl or dredge *6' Bl. silk as before*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>AM</i>	<i>AM</i>		<i>AM</i>	<i>PM</i>
<i>8-1-50</i>	<i>7-8-40</i>	0	<i>9-16-50</i>	<i>7-25-30</i>
<i>2-50</i>	<i>7-25</i>	100	<i>21-15</i>	<i>32.10</i>
<i>3-40</i>	<i>6-30</i>	200	<i>24-50</i>	<i>28.40</i>
<i>4-35</i>	<i>5-30</i>	300	<i>27-30</i>	<i>25.10</i>
<i>5-25</i>	<i>4-30</i>	400	<i>31-00</i>	<i>21.20</i>
<i>6-10</i>	<i>3-25</i>	500	<i>34-00</i>	<i>18.15</i>
<i>7-10</i>	<i>2-25</i>	600	<i>36-45</i>	<i>15.00</i>
<i>8-10</i>	<i>1-15</i>	700	<i>40-00</i>	<i>11.50</i>
<i>9-55</i>	<i>7-0-10</i>	800	<i>43-00</i>	<i>08.30</i>
<i>10-50</i>	<i>58-55</i>	900	<i>45-00</i>	<i>05.00</i>
<i>11-50</i>	<i>57-45</i>	1000	<i>47-00</i>	<i>2.01.00</i>
<i>11-50</i>	<i>56-35</i>	1100	<i>50-50</i>	<i>7.00</i>
<i>12-50</i>	<i>54-50</i>	1200	<i>56-15</i>	<i>54.50</i>
<i>1-55</i>	<i>53-20</i>	1300	<i>57-55</i>	<i>51.10</i>
<i>14-55</i>	<i>51-55</i>	1400	<i>10-00-00</i>	<i>48.10</i>
<i>15-55</i>	<i>50-30</i>	1500	<i>06-30</i>	<i>45.00</i>
<i>16-55</i>	<i>49-05</i>	1600	<i>02-40</i>	<i>41.10</i>
<i>17-55</i>	<i>47-35</i>	1700	<i>13-15</i>	<i>38.10</i>
<i>19-00</i>	<i>46-10</i>	1800	<i>17-15</i>	<i>34.30</i>
<i>20-00</i>	<i>44-30</i>	1900	<i>20-00</i>	<i>30.40</i>
<i>21-10</i>	<i>42-45</i>	2000	<i>23-00</i>	<i>27.30</i>
<i>22-15</i>	<i>41-20</i>	2100	<i>26-40</i>	<i>24.15</i>
<i>23-20</i>	<i>39-40</i>	2200	<i>27-55</i>	<i>21.00</i>
<i>24-20</i>	<i>38.00</i>	2300	<i>34-25</i>	<i>17.30</i>
<i>8-25-30</i>	<i>8:36.20</i>	2400	<i>1-14.00</i>	<i>1:14.00</i>

SOUNDING WIRE.

DREDGE ROPE.

TURNS.

DOWN.

UP.

DOWN.

UP.

8-26-35 4.34.40

2500

10-40-30 1:10:00

27-40 31-05

2600

48-50

28-50 31-25

2700

11-20

1:03:00

8-28-55 2-31-00

2800

50-50

57.00

2900

54-20

55.15

3000

57-30

51.00

3100

11-01-25

38:00

3200

04-45

12:11:00

3300

8-35

57.55

3400

13-15

41-55

3500

11-25

37-15

3600

11-15-20

11-51

3700

3800

3900

4000

Set down for 6 min

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Stopped leaving in for 6 min.			
50	between 3300 & 3400. Not in use.			
100	Stopped leaving in for 5 min. Stopped			
200	again at 11:52, 3327 fms., accumulator 5 1/2.			
300	at 11:54, accumulator 4 1/2. Stopped at			
400	12:05, 3250 fms., acc. 5 1/4. Then in			
500	at 12:06, acc. 5, but registering 5 + 2 1/2.			
600	after leaving in. Stopped at 12:18, 3125 fms.			
700	acc. 5 1/4. At 12:21 down in again, but			
800	stopped at 12:32. At 12:33, acc. 5 + 1/2.			
900	then 12. Stopped at 12:39, and 10 fms. wound out, acc.			
1000	then reg. 4 1/2. At 12:41, acc. 5 + 1/2. Stopped at 12:42, acc.			

11-1023

REMARKS:

Lat. $14^{\circ} 28' 45''$ S / $14^{\circ} 28' 45''$ S
 Long $81^{\circ} 28' 00''$ W. 81-24
 Overcast. No wind. No sea.
 Smooth sea.
 No current.

No. *1* Date *Dec 1*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

Nos of thermometer

(Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200	46-55	20-10
		300	50-10	16-45
		400	3-53-30	4-13-30
		500		
		600	C ^d towing 20 min	
		700	11	
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES 304-305

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	64.5°	109635.		
25	66°	108154.	-.3	65.7
50	64.8°	104914.	-.4	64.4
100	53.8°	108151.	-.4	53.4
200	48.8°	108154.	-.4	49.4
300	45.4°	108156.	-.6	44.8
400	42.7°	108026.	n.s.	31 - (See Sea Dr 4727.)
500				
600	39.8°	108155.	-.7	39.1
700				
800	37.9°	108025.	-.6	37.3
900	a fish killed at end of cable.			
1000	4 Sigsbee thermometers.			

11-1024

REMARKS:

Starts down at 2:41:40 pm.

800 fms at 3:07:15

Commenced up at 3:12:15

all up at 3:36:00

P. L. 290

No. *Dr 4677*Date *5 Dec. '04*

Machine. Reel.

Turns Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *69.0* Surface *68.0* Drift

Trawl or dredge

No Sounding

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5' Surface Net</i>		/0		
<i>Richard G. ...</i>		100		
<i>... for ...</i>		200		
		300		
<i>1-12" ... #12 ...</i>		400		
<i>1-14" ... #20</i>		500		
<i>Towing ...</i>		600	<i>P. M.</i>	
		700	Out	In.
		800	<i>7-18-00</i>	<i>7-33-00</i>
		900		
		1000	<i>Towing ...</i>	
		1100		
		1200		
		1300		
		1400		
<i>... ..</i>		1500		
<i>... ..</i>		1600		
<i>... ..</i>		1700		
<i>Barometer 29.95"</i>		1800		
<i>Thermometer 74.5</i>		1900		
		2000		
		2100		
Pos:		2200		
<i>Lat. 14° 37' 30.5"</i>		2300		
<i>Long. 81° 41' 0" W.</i>		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 4611

Date 6 Dec. 1904.

Lucas

Machine.

Reel. Lucas

Turns

Cor.+

Depth 2620 fath.

Shot or lead 60th and Telegraph Tubes

Bottom Light Brown Radi. Ooze

Bottom temperature 35.8

No. of thermometer 98241

Cor.

Corrected temperature 35.1

Air 70° Surface 69° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-4-50	9-13-30	0		
5-45	11-55	100		
6-40	10-16	200		
7-35	8-45	300		
8-25	7-10	400		
9-20	6-35	500		
10-15	4-05	600		
11-10	2-30	700		
12-05	9-00-55	800		
13-00	59-30	900		
14-00	58-05	1000		
15-00	56-45	1100		
16-00	55-20	1200		
17-00	54-00	1300		
18-00	52-30	1400		
19-00	51-00	1500		
20-05	49-25	1600		
21-10	47-55	1700		
22-15	46-30	1800		
23-20	45-00	1900		
24-30	43-30	2000		
25-35	42-00	2100		
26-45	40-30	2200		
27-55	39-00	2300		
8-29-00	8-37-30	2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3 - 20 - 01	34 - 05	2500		
31 - 15	34 - 10	2600		
3 - 31 - 25	8 - 33 - 35	2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Current to South
 Lat. $15^{\circ} 39' S$
 Long. $83^{\circ} 27.4' W.$ ✓

No. *Dr. 4678* Date *6 Dec. 04*

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

68°

Surface

69°

Drift

Trawl or dredge

Surface Haul.

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

*5' Cone Net
from first layer
1 hour; and**2 Refracting
lenses*

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Out**7:30**7:50**8:10**8:30**8:50**9:10**9:30**9:50**10:10**10:30**10:50**11:10**11:30**11:50**12:10**12:30**12:50**1:10**1:30**1:50**2:10**2:30*

Position:

*16° 34.2' S.**85° 03.8' W.*

Partly clear, pleasant

Gentle breeze, ESE

W. 10-15 mph

Bar. 30.00

Therm. at 71°

*116° 31.2' S.**85° 03.8' W.*

✓

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11—1023

REMARKS:

No. *11. 46* Date *11. 11. 11*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *2485*
 Shot or lead *6*
 Bottom *fine sand, green mud*
 Bottom temperature *35.9°*
 No. of thermometer Cor. *6*
 Corrected temperature *35.3*
 Air *69°* Surface *69°* Drift
 Trawl or dredge *Intermediate Haul*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8-1-10</i>	<i>9-1-20</i>	0	<i>9-07-30</i>	<i>9-56-00</i>
<i>2-20</i>	<i>9-00-05</i>	100	<i>10-50</i>	<i>52-10</i>
<i>3-15</i>	<i>58-50</i>	200	<i>14-25</i>	<i>48-40</i>
<i>4-10</i>	<i>57-40</i>	300	<i>17-15</i>	<i>45-00</i>
<i>5-05</i>	<i>56-30</i>	400	<i>20-10</i>	<i>41-10</i>
<i>6-00</i>	<i>55-30</i>	500		
<i>7-00</i>	<i>54-25</i>	600		
		700		
<i>8-55</i>	<i>52-05</i>	800		
<i>9-50</i>	<i>50-00</i>	900		
<i>10-50</i>	<i>49-40</i>	1000	<i>2 Silk K. Hoids</i>	
<i>11-50</i>	<i>48-25</i>	1100		
<i>12-50</i>	<i>47-10</i>	1200	<i>Towing at 300</i>	
<i>13-55</i>	<i>45-50</i>	1300		
<i>15-00</i>	<i>44-35</i>	1400	<i>Towing 20 min</i>	
<i>16-00</i>	<i>43-15</i>	1500		
<i>17-05</i>	<i>41-55</i>	1600		
<i>18-05</i>	<i>40-35</i>	1700		
<i>19-10</i>	<i>39-20</i>	1800		
<i>20-15</i>	<i>38-00</i>	1900		
<i>21-20</i>	<i>36-30</i>	2000		
<i>22-25</i>	<i>35-00</i>	2100		
<i>23-35</i>	<i>33-30</i>	2200		
<i>24-40</i>	<i>32-00</i>	2300		
<i>8-25-45</i>	<i>30-30</i>	2400		
<i>-26-35</i>	<i>8-28-45</i>	2485		

Drift while sounding 4 NW 1/2.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-10-11

REMARKS:

Overcast & cloudy
 11:00 AM
 Therm. attached 76°

Position
 1° 26' N
 71° 46' W

No. *112-4677* Date *Dec. 01*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *72*° Surface *68*° DriftTrawl or dredge *10 fathoms*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>9-59-00</i>	<i>1-21-00</i>
		100	<i>10-2-30</i>	<i>17-40</i>
		200	<i>5-30</i>	<i>14-20</i>
		300	<i>8-25</i>	<i>11-25</i>
		400	<i>11-20</i>	<i>8-20</i>
		500	<i>14-15</i>	<i>5-05</i>
		600	<i>17-00</i>	<i>1-02-03</i>
		700	<i>19-50</i>	<i>58-45</i>
		800	<i>22-40</i>	<i>55-25</i>
		900	<i>25-40</i>	<i>51-50</i>
		1000	<i>28-35</i>	<i>48-00</i>
		1100	<i>31-30</i>	<i>44-00</i>
		1200	<i>34-20</i>	<i>40-15</i>
		1300	<i>37-15</i>	<i>36-45</i>
		1400	<i>40-10</i>	<i>33-10</i>
		1500	<i>43-05</i>	<i>29-05</i>
		1600	<i>46-00</i>	<i>25-05</i>
		1700	<i>49-00</i>	<i>21-35</i>
		1800	<i>52-00</i>	<i>18-00</i>
		1900	<i>55-00</i>	<i>14-20</i>
		2000	<i>58-00</i>	<i>10-05</i>
		2100	<i>61-00</i>	<i>6-45</i>
		2200	<i>64-00</i>	<i>3-30</i>
		2300	<i>67-00</i>	<i>00-00</i>
		2400	<i>70-00</i>	<i>00-00</i>

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	11 11	11 11 11 11
		2600		
		2700		
		2800		
		2900	11 11	
		3000	11 11	
		3100		
		3200		
		3300	Hauled out 20 min.	
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-10-11

REMARKS:

Dredge course N.E.
 Lat. $17^{\circ} 26' 24''$ S
 Long. $86^{\circ} 46' 30''$ W.
 S. with S. S. S.
 S. S. S. S. S. S.

Bar. 34.95
 Ther. 75.0

No. 4411

Date 6 Dec. 1904.

Machine.

Reel. Lucas

Turns

Cor. +

Depth 2620 fath.

Shot or lead 60^{lb} 2nd Telegraph

Bottom Light Brown Rad. Ooze

Bottom temperature 35.8

No. of thermometer 98241

Cor.

Corrected temperature 35.1²

Air 70.0

Surface 69.0

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-41-50	4-3-30	0		
5-45	11-55	100		
6-40	10-16	200		
7-35	8-45	300		
8-25	7-10	400		
9-20	6-35	500		
10-15	4-05	600		
11-10	2-30	700		
12-05	9-10-55	800		
13-00	59-30	900		
14-00	58-05	1000		
15-00	56-45	1100		
16-00	55-20	1200		
17-00	54-00	1300		
18-00	52-30	1400		
19-00	51-00	1500		
20-05	49-25	1600		
21-10	47-55	1700		
22-15	46-30	1800		
23-20	45-00	1900		
24-30	43-30	2000		
25-35	42-00	2100		
26-45	40-30	2200		
27-55	39-00	2300		
8-29-00	8-37-30	2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11—1023

REMARKS:

Veille

P.L. 45.5

No. *Dr. 4681* Date *8 Dec. 1904*Lucas Machine. Reel. *Lucas*Turns Cor.+ Depth *2395 fms.*Shot *60 lb. and 35 lb. shot*Bottom *Gr. fm. rad. G.*Bottom temperature *36°*No. of thermometer *98241* Cor. *6*Corrected temperature *35.4*Air *68°* Surface *68°* DriftTrawl or dredge *Lucas beam trawl*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>A. 15.</i>				
<i>8-2-30</i>	<i>9-00-50</i>	0	<i>1-7-30</i>	
<i>3 45</i>	<i>59-20</i>	100	<i>11-15</i>	
<i>5-00</i>	<i>57-50</i>	200	<i>14-45</i>	
<i>6-00</i>	<i>56-30</i>	300	<i>17-05</i>	<i>43-30</i>
<i>6 55</i>	<i>55-20</i>	400	<i>20-30</i>	<i>4-00</i>
<i>7-50</i>	<i>54-15</i>	500		
<i>8-45</i>	<i>53-10</i>	600	<i>Flowing 30 min.</i>	
<i>9-40</i>	<i>52-05</i>	700		
<i>10-35</i>	<i>51-00</i>	800		
<i>11-35</i>	<i>49-50</i>	900	<i>5' Core Net</i>	
<i>12-30</i>	<i>48-40</i>	1000	<i>2 Kofoids attached</i>	
<i>13-30</i>	<i>47-30</i>	1100	<i>from dredge form</i>	
<i>14-30</i>	<i>46-20</i>	1200	<i>Towing at</i>	
<i>15-30</i>	<i>45-10</i>	1300	<i>300 fms</i>	
<i>16-30</i>	<i>43-45</i>	1400	<i>with 400 fms. cable</i>	
<i>17-30</i>	<i>42-25</i>	1500		
<i>18-35</i>	<i>41-00</i>	1600		
<i>19-40</i>	<i>39-40</i>	1700		
<i>20-45</i>	<i>38-10</i>	1800		
<i>21-50</i>	<i>36-50</i>	1900		
<i>22-50</i>	<i>35-40</i>	2000		
<i>23-55</i>	<i>33-55</i>	2100		
<i>25-00</i>	<i>32-30</i>	2200		
<i>26-05</i>	<i>31-00</i>	2300		
<i>8-27-15</i>	<i>8-29-20</i>	<i>2395</i>		
		<i>2400</i>		

End of sounding 8-29-20.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

117 1023

REMARKS:

Under
 Sounding wire
 Thermometer 30.02"
 Thermometer, alcohol

Position
 Lat. 18° 47.18
 Long. 89° 22' 00" V
 89-26 00

No. *711* Date *30*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature *2*Air *70°* Surface *70°* Drift *net 65.8°*
*alt. 0.3 mile*Trawl or dredge *5 1/2*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>10-00-00</i>	<i>2-0-45</i>
		100	<i>4-00</i>	<i>57-15</i>
		200	<i>7-10</i>	<i>50-10</i>
		300	<i>11-15</i>	<i>50-53</i>
		400	<i>14-10</i>	<i>50-10</i>
		500	<i>18-30</i>	<i>43-55</i>
		600	<i>22-15</i>	<i>40-30</i>
		700	<i>26-00</i>	<i>36-53</i>
		800	<i>29-40</i>	<i>33-15</i>
		900	<i>22-30</i>	<i>30-00</i>
		1000	<i>25-20</i>	<i>26-25</i>
		1100	<i>29-15</i>	<i>22-20</i>
		1200	<i>33-05</i>	<i>18-20</i>
		1300	<i>36-45</i>	<i>14-15</i>
		1400	<i>40-00</i>	<i>10-00</i>
		1500	<i>44-00</i>	<i>06-05</i>
		1600	<i>47-45</i>	<i>01-55</i>
		1700	<i>51-25</i>	<i>58-25</i>
		1800	<i>54-55</i>	<i>54-30</i>
		1900	<i>58-30</i>	<i>50-45</i>
		2000	<i>11-2-25</i>	<i>46-50</i>
		2100	<i>6-15</i>	<i>42-50</i>
		2200	<i>10-00</i>	<i>38-45</i>
		2300	<i>13-35</i>	<i>34-10</i>
		2400	<i>17-00</i>	<i>12-29-30</i>

Trawl or dredge 5 1/2

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	11 - 15	13 - 15
		2600	11 - 15	13 - 15
		2700	11 - 15	13 - 15
		2800	11 - 15	13 - 15
		2900	11 - 15	13 - 15
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

Position at Mer:
 Lat. 18° 47' 06" S.
 Long. 89° 26' 00" W.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Stopped for 1 min 12-33.24			
50				
100	Stopped at 12-7 PM. (see min. that on			
200	on bottom) also 1' min at 12-12. also			
300	1/2 min at 12-15. also 1/2 min at 12-1			
400	22 1/4 min from 22			
500				
600				
700				
800				
900				
1000				

11-1021

REMARKS:

Day on the side.

No.

Date

Dec. 1904

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	70.3	107922		
25	68.7	108151	-.2	68.5
50	68.0	108025	-.2	67.8
100	61.6	104924	-.3	61.3
200	49.6	108156	-.5	49.1
300	44.5	108026	n.s.	
400	42.5	108155	-.7	41.8
500				
600	39.8	108154	-.7	39.1
700				
800	38.0	107917	-.7	37.3
900				
1000	at bottom			

REMARKS:

2-07-25 Started
2-31-30 Reached bottom (?)
2-33-50 Started up.
2-55-00 Last reached surface

507
 (Ampil.)
 No. 4682. Date 8 Dec. 04

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 69° Surface 69° Drift

Trawl or dredge

Surface Haul as before

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

out.

In.

7:32

7:52

= Towing

20 min

Lat. 19° 07.6' S. ✓

Long. 90° 10.6' W.

Fair.

Sight Breeze, S.E.

Bar. 29.96

Therm. att. 72°

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Frank No. *Dr. 4112*, Date *9 Dec. 1904*
Lucas Machine. Reel. *Lucas*

Turns Cor.+ Depth *2385 fms.*

Shot ~~on level~~ *60 lb* *100 lb*

Bottom *dk. choc. rd. rad. Oz.*

Bottom temperature *35.8°*

No. of thermometer *98241* Cor. *5*

Corrected temperature *35.2*

Air *72°* Surface *70°* Drift

Trawl or dredge *Internad. 5' Cope - and 2 K. S. L. dredge*

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

am. DOWN.	UP.		DOWN.	UP.
<i>8: 04.50</i>	<i>8: 59.25</i>	0	<i>9: 12.20</i>	<i>10: 01.00</i>
<i>05.50</i>	<i>58.05</i>	100	<i>16.10</i>	<i>57.00</i>
<i>06.40</i>	<i>57.00</i>	200	<i>18.00</i>	<i>55.00</i>
<i>07.30</i>	<i>56.00</i>	300	<i>20.00</i>	<i>53.00</i>
<i>08.20</i>	<i>55.00</i>	400	<i>9: 27.00</i>	<i>9: 47.00</i>
<i>09.10</i>	<i>53.45</i>	500	<i>= Timing 20 min</i>	
<i>10.00</i>	<i>52.45</i>	600		
<i>10.55</i>	<i>51.50</i>	700		
<i>11.55</i>	<i>50.50</i>	800		
<i>12.50</i>	<i>49.50</i>	900		
<i>13.45</i>	<i>48.45</i>	1000		
<i>14.45</i>	<i>47.40</i>	1100		
<i>15.45</i>	<i>46.30</i>	1200		
<i>16.50</i>	<i>45.10</i>	1300	<i>Lat. 28-02.48</i>	
<i>17.50</i>	<i>44.00</i>	1400	<i>Long. 91-52.50</i>	
<i>18.55</i>	<i>42.45</i>	1500	<i>Time.</i>	
<i>19.55</i>	<i>41.30</i>	1600	<i>Lat. 28.00</i>	
<i>21.00</i>	<i>40.20</i>	1700	<i>Meridian. 91.00</i>	
<i>22.10</i>	<i>39.00</i>	1800	<i>Course. 30.02</i>	
<i>23.15</i>	<i>37.40</i>	1900	<i>Time. 10. 74.00</i>	
<i>24.25</i>	<i>36.20</i>	2000	<i>Course, S. 81.00</i>	
<i>25.30</i>	<i>35.00</i>	2100	<i>and (S. 81.00)</i>	
<i>26.35</i>	<i>33.30</i>	2200	<i>Time.</i>	
<i>27.45</i>	<i>32.05</i>	2300		
<i>8: 28.45</i>	<i>8: 30.45</i>	2400		

The observation drift of ship was
Course. 30.02

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surf.	70.6°	104922	.3	70.3
25	69.3°	108154	.3	69.
50	68.7°	108151	.2	68.5
75	68.7°	104914	.3	68.4
100	63.0°	104924	-.3	62.7
125	62.8°	108155	-.3	62.5
150	53.0°	108026	n.s.	52.7
175	50.8°	108025	-.11	50.4
200	51.1°	108156	-.5	50.6
700				
800				
900				
1000				

11-1023

REMARKS:

Started down at 10:03.10
 200 fms. down at 10:15.45
 Starts heave in 10:20.45
 up at 10:30.00

De 10/179

No. 101 4 84

Date 7 Dec 1907

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 70°

Surface 72°

Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

5' 1/2" 1/2" 1/2"

10' 1/2" 1/2" 1/2"

15' 1/2" 1/2" 1/2"

20' 1/2" 1/2" 1/2"

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

7-30-30 7-50-30

7-30-30 7-50-30

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Fair 2
 Smooth Sea ~~SSE~~
 Light E. by S. SSE
 Bar 29.98
 Ther 73.0

Lat 41° 10.5' S
 Long 93° 19.2' W

pl. 10.9

11-1023

Contd. on next page

No. *Dr.* 4685. Date 10 Dec. 1904

Lucas Machine. Reel. Lucas.

Turns Cor.+ Depth 2205 fms.

Shot or lead 60 lb J.C. Tubes

Bottom dk. choc. red. med. Oz.

Bottom temperature 35.9°

No. of thermometer 98241. Cor. *b*

Corrected temperature 35.3

Air 80° Surface 72° Drift

Trawl or dredge Intermediate, as before.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8:01.50	9:52.50	0	9:01.50	9:52.50
02.55	40.25	100	02.55	40.25
03.45	47.30	200	03.45	47.30
04.40	54.40	300	04.40	54.40
05.30	46.45	400	05.30	46.45
06.20	45.45	500	= (Twine) 20 min.	
07.10	44.45	600		
08.00	43.45	700	Lead. 24 lb 12	
09.00	42.45	800	Lead. 44 lb 10	
10.05	41.45	900	Twine clear.	
11.00	40.40	1000	Lead. 64 lb 11	
12.00	39.40	1100	Reel. 30.00	
13.00	38.35	1200	Twine. 78.00	
14.00	37.25	1300	Twine. 60.00	
15.00	36.15	1400	Twine. 41.00	
16.00	35.05	1500		
17.00	33.50	1600		
18.00	32.40	1700		
19.00	31.25	1800		
20.00	30.10	1900		
21.00	28.45	2000		
22.00	27.25	2100		
23.00	25.50	2200		
8:23.27	8:25.27	2205		
		2300		
		2400		

No. of turns of wire on reel.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
0	72.5°	104922	0	
25	68.4°	108154	-3	68.6
50	68.0°	108156	-3	67.7
100	65.1°	108157	-3	64.8
200	49.8°	104914	-6	49.2
300	43.3°	104924	-6	42.7
400	41.8°	108155	-7	41.1
500				
600	39.2°	108026	N.S.	
700				
800	37.9°	108025	.7	37.2
900	(A Kofoid net)			
1000				

11-1023

REMARKS:

Commenced to lower at 9:55.00

Commenced to haul up at 10:24.00

Commenced to haul up at 10:24.00
 26 at 10:46.00

Set clock back 12 min.

No. *Dr. 4685* Date *10 Dec. 1904*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead *(For sounding data see record)*Bottom *of beginning of the bottom, etc.*Bottom temperature *from bottom*No. of thermometer *100* Cor.

Corrected temperature

Air *78°* Surface *71°* Drift *0.00*Trawl or dredge *5 1/2 ft Bl. - (2 1/2 ft. S. bottom)*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>Dr. Comae,</i>	<i>S 27° E.</i>	0	<i>10: 35: 20</i>	<i>2 - 20 - 00</i>
<i>Ac. Lat.</i>	<i>21° 36' 10" S</i>	100	<i>38.50</i>	<i>1 - 15</i>
<i>Long.</i>	<i>94° 56' 00" W</i>	200	<i>42.00</i>	
		300	<i>45.00</i>	
		400	<i>48.00</i>	
		500	<i>51.00</i>	<i>20 - 00 - 00</i>
		600	<i>54.00</i>	
	<i>79.6"</i>	700	<i>11. 00. 00</i>	
		800	<i>02.50</i>	
		900	<i>07.20</i>	
		1000	<i>10.50</i>	
		1100	<i>14.20</i>	
		1200	<i>17.50</i>	
		1300	<i>21.00</i>	
		1400	<i>24.00</i>	
		1500	<i>27.00</i>	
		1600	<i>30.00</i>	
		1700	<i>33.00</i>	
		1800	<i>36.00</i>	<i>11 - 30</i>
		1900	<i>39.00</i>	
		2000	<i>42.00</i>	
		2100	<i>45.00</i>	
		2200	<i>48.00</i>	
		2300	<i>51.00</i>	
		2400	<i>12 - 00 - 15</i>	<i>12 - 00 - 15</i>

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	12- 00	40 00
		2600	7- 30	30 20
		2700 ✓	11- 30	12 20
		2800		
		2900		
		3000	Dredging 15 min.	
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-10-11

REMARKS:

Note: Dredging 15 min.
14 fms.

Machine. Reel.

Turns

Cor.+

Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 7.10

Surface 71°

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		LOWER P.M.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
-12' 4. bid 12		800	7-12-0	7-12-30
-17' " 20		900		
Towing astern		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Overcast - light showers
 Smooth Sea
 Light Breeze N. by N.
 9.25

Long. $95^{\circ} 52' 01''$
 Lat. $22^{\circ} 22' S.$ ✓

Pl. = 78.3

No. 4687 Date 11 Dec. 1904

Machine. Reel. Line

Turns. Cor.+ Depth 2184 fms

Shot or lead 60 lb into T.C. Trawl

Bottom dk. chr. red. rad. Oz.

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 84° Surface 73° Drift

Trawl or dredge 5' net: 5' Cor. = 2' 2'

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.	UP.		DOWN.	UP.
8:02.15	8:52.50	0	9:07.30	9:44.00
04.10	51.45	100	0:02.30	0:05.00
05.10	50.50	200	05.30	41.10
06.00	49.50	300	06.30	36.00
07.05	48.50	400	0:12.30	0:32.30
08.00	47.50	500	= 20 min. tow.	
08.55	46.45	600	net hauled at 9:00.	
09.45	45.35	700	II. 5' Cor. net	
10.40	44.35	800	2 Krlids:	
11.30	43.10	900	(10 min. tow)	
12.30	42.30	1000	0:09.30	0:12.30
13.30	41.20	1100	10:10.00	10:10.00
14.30	40.10	1200	07.30	07.30
15.30	39.00	1300	08.30	08.30
16.30	37.45	1400	09.30	09.30
17.30	36.30	1500	10.30	10.30
18.30	35.15	1600	11.30	11.30
19.40	34.00	1700	12.30	12.30
20.40	32.40	1800	23.30	23.30
21.50	31.20	1900	26.30	26.30
22.55	29.50	2000	28.30	28.30
23.55	28.30	2100	31.30	31.30
8:25.00	8:27.00	2184	36.30	36.30
		2200	38.30	38.30
		2300	41.30	41.30
		2400	44.30	44.30

Sail set 5:15 AM.

while sounding.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
I.				
Lat. 22° 49' 00" N.		2500	10:46.00	46.20
Long. 97° 29' 30" W.		2600	50.00	15.00
Heavily clear		2700	52.00	37.15
Light breeze from S.W.		2800	57.20	32.45
Smooth sea		2900	11:00.00	20.00
Bar. 30.01		3000	04.45	26.15
Therm. 77°		3100	04.20	22.20
Current S. by E. 1 mi.		3200	11:09.15	11:20.15
		3300	Clear at 11:20.15	
		3400	trailing 20 min.	
II.				
Heavily clear.		3500		
Calm to S.W. 1 mi.		3600		
Smooth sea.		3700		
Bar. 30.02		3800		
Therm. 77°		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Therm. 29° 49' 30" S. ✓			
50	Long. 97° 30' 30" W. ✓			
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

De Long

Lit. No. 4688

Date 11 Dec. 1927

Machine. Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom No Sounding.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 73°

Surface 72°

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5' Sounding net same fast down with East light cutting		0	7-32-30	7-33-00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
1 - 12" K. L. #12	1 - 12" K. L. #12	1000	7-33-00	7-33-00
1 - 12" K. L. #20	1 - 12" K. L. #20	1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Cloudy (nearly overcast)</i>		2500		
<i>Smooth sea</i>		2600		
<i>Light Air - Variable</i>		2700		
<i>Bar</i>	<i>30.01</i>	2800		
<i>Ther. Att</i>	<i>76°</i>	2900		
		3000		
<i>Lat. 23° 17.2'</i>		3100		
<i>Long. 98° 57.5'</i>	✓	3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 4689. Date 12 Dec. 04.

Machine. Reel.

Turns Cor. Depth 715

Shot or lead 35 lb. Tides

Bottom dk. choc. rd. rad. Oz.

Bottom temperature 36.0

No. of thermometer 98241. Cor. 6

Corrected temperature 35.4

Air 81° Surface 72° Drift

Trawl or dredge 5' Cope

Am. SOUNDING WIRE.

TURNS.

Am. DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

8:02.50 8:54.10

04.20 153.05

05.25 52.15

06.15 51.10

07.15 50.05

08.10 49.05

09.00 48.00

09.55 46.50

10.50 45.45

11.50 44.30

12.45 43.20

13.45 42.00

14.40 40.45

15.40 39.30

16.45 38.15

17.45 36.55

18.50 35.40

19.55 34.20

21.00 33.00

22.05 31.45

23.10 30.20

24.10 29.00

25.10 27.55

26.10 26.40

27.10 25.20

28.10 24.00

29.10 22.55

30.10 21.40

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

9:00.00 9:45.10

02.45 9:45.10

03.45 9:45.10

04.45 9:45.10

05.45 9:45.10

06.45 9:45.10

07.45 9:45.10

08.45 9:45.10

09.45 9:45.10

10.45 9:45.10

11.45 9:45.10

12.45 9:45.10

13.45 9:45.10

14.45 9:45.10

15.45 9:45.10

16.45 9:45.10

17.45 9:45.10

18.45 9:45.10

19.45 9:45.10

20.45 9:45.10

21.45 9:45.10

22.45 9:45.10

23.45 9:45.10

24.45 9:45.10

no drift while sky.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	70.4°	108156	-.3	70.1
50	69.1°	108151	-.3	68.8
100	64.9°	104914	-.5	64.4
200	51.5°	104924	-.5	51.
300	44.9°	108155	-.8	44.1
400	41.8°	108026	n.s.	41.4
500				
600	39°	108025	-.7	38.3
700				
800	37.8°	108154	-.8	37.
900				
1000				

11-1023

REMARKS:

Lowered at 9:53.00
 Down at 10:18.30 }
 Started up at 23.50 }
 10:47.50

H. I. 50.9

No. *Dr: 4690*Date. *12 Dec. '04*

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

*Surface haul**No Soundings*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500	<i>17-30-00</i>	<i>7-50-00</i>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

St. air from 1100
Barom. 30.01"
Thermom. attached 77°

Lat. 24° 45' 00" S
Long. 101° 45' 00" W

Dr. No. 4691

Date 13 Dec. 1904

Lucas

Machine.

Reel. Lucas

Turns

Cor. +

Depth 1939 fath.

Shot or lead

60 lb

Bottom

S. gy. - S. m. - S. f. - S. c.

Bottom temperature 33°

No. of thermometer 98241

Cor.

6

Corrected temperature 32.4°

Air 78°

Surface 73°

Drift

Trawl or dredge

D. M. - 20 ft. - 20 ft. - 20 ft.

2-20 ft. - 20 ft. - 20 ft.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4-10	47-31	0	1-13	9-40-55
1-10	46-31	100	1-13	9-40-55
6-10	45-31	200	59-50	33-40
7-5	44-31	300	9-03-00	30-10
7-55	43-31	400	1-01-20	27-10
8-50	42-31	500		
9-45	41-31	600		
10-40	40-31	700		
11-40	39-31	800		
12-40	38-31	900	This station is	
13-40	37-31	1000		
14-35	36-31	1100	Continued	
15-35	35-31	1200		
16-35	34-31	1300	on next page.	
17-35	33-31	1400		
18-35	32-31	1500		
19-35	31-31	1600		
20-35	30-31	1700		
21-35	29-31	1800		
22-35	28-31	1900		
23-35	27-31	2000		
24-35	26-31	2100		
25-35	25-31	2200		
26-35	24-31	2300		
27-35	23-31	2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

11-1023
Clear
Smooth Sea
Light Breeze S.W.
Bar. 30.05
Therm. 77
Lat. 25° 51' N.
Long. 103° 30' 48" W.
29.3

13 Dec. 04.

No. 117. 4691. Date 13 Dec. 1904

Machine. Reel.

Turns Cor.+ Depth

Shot or lead (For sounding data see

Bottom (previous page)

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge 8' Blake Alb.*

SOUNDING WIRE.

TURNS.

DREDGE ROPE. /

DOWN.

UP.

DOWN.

UP.

* 1000, 1100, 1200	0	9-40-00	2.21.30
1100, 1200, 1300	100	43-10	11.15
1200, 1300, 1400	200	43-10	12.00
1300, 1400, 1500	300	43-10	11.15
	400		10.40
	500	43-10	10.15
	600	43-10	9.40
	700	43-10	9.15
	800	43-10	8.40
	900	43-10	8.15
	1000	43-10	7.40
	1100	43-10	7.15
	1200	43-10	6.40
	1300	43-10	6.15
	1400	43-10	5.40
	1500	43-10	5.15
	1600	39-40	26.55
	1700	43-10	23.10
* Sit Clock back 11 min.	1800	* 35-40	1.19.20
	1900	39-25	45.00
	2000	43-05	40.50
	2100	46-40	36.40
	2200	50-30	12:14.30
	2300		57.00
	2400	10-58-10	11-26-25

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11-00-00	11 17 30	2500	Mer. Lat. 25° 27' 24" S.	
		2600	Long. 103° 29' 18" W.	
		2700	Dr. Course, S. 54° W.	
		2800	Drift, S. 54° W.	
		2900	Drift, S. 54° W.	
		3000	Drift, S. 54° W.	
		3100	Drift, S. 54° W.	
		3200	Drift, S. 54° W.	
		3300	Drift, S. 54° W.	
		3400	Drift, S. 54° W.	
		3500	Drift, S. 54° W.	
		3600	Drift, S. 54° W.	
		3700	Drift, S. 54° W.	
		3800	Drift, S. 54° W.	
		3900	Drift, S. 54° W.	
		4000	Drift, S. 54° W.	

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

[illegible]

P.L. 96.8

No. *4672* Date *13 Dec. 20*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *73°* Surface *72°* DriftTrawl or dredge *Surface haul**No Sounding.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5' Sounding</i>		0		
<i>with 100 lb lead</i>		100		
<i>at 100 fms</i>		200		
<i>good haul</i>		300		
		400	<i>Out</i>	<i>In</i>
		500	<i>7-50-00</i>	<i>7-50-00</i>
		600		
<i>1 fathom 12"</i>		700		
<i>1 " 14" 20 "</i>		800		
<i>Lowering astern</i>		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

(overcast) wind rain
Light do gentle breeze
Thermom. attached
Lat. 25° 40.7' S. ✓
Long. 109° 5' W. ✓
Sam. W. K. W.

No. *4513* *Hy.* Date *11/10/11*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *885 fath.*
 Shot or lead *35th Telegraph Tubes*
 Bottom *rocky.*
 Bottom temperature *37°*
 No. of thermometer *98241* Cor. *.6*
 Corrected temperature *36.4*
 Air *71°* Surface *71°* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-11-15</i>	<i>4-11-45</i>	0		
<i>3-11-15</i>	<i>4-11-40</i>	100		
<i>5-11-15</i>	<i>4-11-35</i>	200		
<i>7-11-15</i>	<i>4-11-30</i>	300		
<i>9-11-15</i>	<i>4-11-25</i>	400		
<i>11-11-15</i>	<i>4-11-20</i>	500		
<i>13-11-15</i>	<i>4-11-15</i>	600		
<i>15-11-15</i>	<i>4-11-10</i>	700		
<i>17-11-15</i>	<i>4-11-05</i>	800		
<i>19-11-15</i>	<i>4-11-00</i>	900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Lat. 31° 17'
 Long. 115° 20' W

No. 147

Date 14 June 1904

Lucas

Machine.

Reel Lucas

Turns

Cor. +

Depth 1142 fath.

Shot or lead 35 lb.

Bottom Mang. Nos.

Bottom temperature 36°

No. of thermometer 98241

Cor.

6

Corrected temperature 35.4

Air 72°

Surface 73°

Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

11-10 11-10 40

0

11-10 40 3.32.0

11-10 11-10 40

100

11-10 40 3.32.5

11-10 11-10 40

200

11-10 40 3.33.5

11-10 11-10 40

300

11-10 40 3.34.5

11-10 11-10 40

400

11-10 40 3.35.5

11-10 11-10 40

500

11-10 40 3.36.5

11-10 11-10 40

600

11-10 40 3.37.5

11-10 11-10 40

700

11-10 40 3.38.5

11-10 11-10 40

800

11-10 40 3.39.5

11-10 11-10 40

900

11-10 40 3.40.5

11-10 11-10 40

1000

11-10 40 3.41.5

11-10 11-10 40

1100

11-10 40 3.42.5

11-10 11-10 40

1200

11-10 40 3.43.5

11-10 11-10 40

1300

11-10 40 3.44.5

11-10 11-10 40

1400

11-10 40 3.45.5

11-10 11-10 40

1500

11-10 40 3.46.5

11-10 11-10 40

1600

11-10 40 3.47.5

11-10 11-10 40

1700

11-10 40 3.48.5

11-10 11-10 40

1800

11-10 40 3.49.5

11-10 11-10 40

1900

11-10 40 3.50.5

11-10 11-10 40

2000

11-10 40 3.51.5

11-10 11-10 40

2100

11-10 40 3.52.5

11-10 11-10 40

2200

11-10 40 3.53.5

11-10 11-10 40

2300

11-10 40 3.54.5

11-10 11-10 40

2400

11-10 40 3.55.5

11-10 11-10 40

2500

11-10 40 3.56.5

11-10 11-10 40

2600

11-10 40 3.57.5

11-10 11-10 40

2700

11-10 40 3.58.5

11-10 11-10 40

2800

11-10 40 3.59.5

11-10 11-10 40

2900

11-10 40 4.00.5

11-10 11-10 40

3000

11-10 40 4.01.5

11-10 11-10 40

3100

11-10 40 4.02.5

11-10 11-10 40

3200

11-10 40 4.03.5

11-10 11-10 40

3300

11-10 40 4.04.5

11-10 11-10 40

3400

11-10 40 4.05.5

11-10 11-10 40

3500

11-10 40 4.06.5

11-10 11-10 40

3600

11-10 40 4.07.5

11-10 11-10 40

3700

11-10 40 4.08.5

11-10 11-10 40

3800

11-10 40 4.09.5

11-10 11-10 40

3900

11-10 40 4.10.5

11-10 11-10 40

4000

11-10 40 4.11.5

11-10 11-10 40

4100

11-10 40 4.12.5

11-10 11-10 40

4200

11-10 40 4.13.5

11-10 11-10 40

4300

11-10 40 4.14.5

11-10 11-10 40

4400

11-10 40 4.15.5

11-10 11-10 40

4500

11-10 40 4.16.5

11-10 11-10 40

4600

11-10 40 4.17.5

11-10 11-10 40

4700

11-10 40 4.18.5

11-10 11-10 40

4800

11-10 40 4.19.5

11-10 11-10 40

4900

11-10 40 4.20.5

11-10 11-10 40

5000

11-10 40 4.21.5

11-10 11-10 40

5100

11-10 40 4.22.5

11-10 11-10 40

5200

11-10 40 4.23.5

11-10 11-10 40

5300

11-10 40 4.24.5

11-10 11-10 40

5400

11-10 40 4.25.5

11-10 11-10 40

5500

11-10 40 4.26.5

11-10 11-10 40

5600

11-10 40 4.27.5

11-10 11-10 40

5700

11-10 40 4.28.5

11-10 11-10 40

5800

11-10 40 4.29.5

11-10 11-10 40

5900

11-10 40 4.30.5

11-10 11-10 40

6000

11-10 40 4.31.5

11-10 11-10 40

6100

11-10 40 4.32.5

11-10 11-10 40

6200

11-10 40 4.33.5

11-10 11-10 40

6300

11-10 40 4.34.5

11-10 11-10 40

6400

11-10 40 4.35.5

11-10 11-10 40

6500

11-10 40 4.36.5

11-10 11-10 40

6600

11-10 40 4.37.5

11-10 11-10 40

6700

11-10 40 4.38.5

11-10 11-10 40

6800

11-10 40 4.39.5

11-10 11-10 40

6900

11-10 40 4.40.5

11-10 11-10 40

7000

11-10 40 4.41.5

11-10 11-10 40

7100

11-10 40 4.42.5

11-10 11-10 40

7200

11-10 40 4.43.5

11-10 11-10 40

7300

11-10 40 4.44.5

11-10 11-10 40

7400

11-10 40 4.45.5

11-10 11-10 40

7500

11-10 40 4.46.5

11-10 11-10 40

7600

11-10 40 4.47.5

11-10 11-10 40

7700

11-10 40 4.48.5

11-10 11-10 40

7800

11-10 40 4.49.5

11-10 11-10 40

7900

11-10 40 4.50.5

11-10 11-10 40

8000

11-10 40 4.51.5

11-10 11-10 40

8100

11-10 40 4.52.5

11-10 11-10 40

8200

11-10 40 4.53.5

11-10 11-10 40

8300

11-10 40 4.54.5

11-10 11-10 40

8400

11-10 40 4.55.5

11-10 11-10 40

8500

11-10 40 4.56.5

11-10 11-10 40

8600

11-10 40 4.57.5

11-10 11-10 40

8700

11-10 40 4.58.5

11-10 11-10 40

8800

11-10 40 4.59.5

11-10 11-10 40

8900

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Dredge down N.E.		2500	22 fms. 1150 fms.	
Fair.		2600	Stop & ream time 1 min.	
Gentle breeze from SSE		2700	Settle in 10 min. very fine	
Moderate breeze		2800	Settle in 10 min. very fine	
(Bar 30.12)		2900	Settle in 10 min. very fine	
(Temp. 75°)		3000	Settle in 10 min. very fine	
W. wind 26° 10' N.		3100	Settle in 10 min. very fine	
Long 105° 45' W.		3200	Settle in 10 min. very fine	
		3300	Settle in 10 min. very fine	
		3400	Settle in 10 min. very fine	
		3500	Settle in 10 min. very fine	
X Under way 5 min. 10'		3600	Settle in 10 min. very fine	
Speed 4.500 fms. 1000		3700	Settle in 10 min. very fine	
in 10 min. 1000 fms. 1000		3800	Settle in 10 min. very fine	
Time before 1000 fms. 1000		3900	Settle in 10 min. very fine	
4-4.5. 1000 fms. 1000		4000	Settle in 10 min. very fine	

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Feibly

P. I. 8.4

No. Hy 4814 Date 15 Dec '01

Lucas Machine. Reel. Lucas

Turns Cor. Depth 1696 fms.

Shot on lead 35 lb 1 Tripod Trip

Bottom Muddy fine sand

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 71° Surface 70° Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

2-5-30	2-41-00	0
6-30	40-00	100
7-35	39-25	200
8-40	38-50	300
9-45	38-15	400
10-50	37-40	500
12-05	37-15	600
13-10	36-40	700
14-25	36-05	800
15-30	35-40	900
16-40	35-15	1000
17-50	34-50	1100
19-00	34-25	1200
20-15	34-00	1300
21-30	33-35	1400
22-45	33-10	1500
24-10	32-45	1600
25-25	27-45	1696
		1700

1800

1900

2000

2100

2200

2300

2400

Position:

Lat. 26° 50' 45" S

Long. 107° 57' W

30.5

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1024

REMARKS:

Clear, - smooth sea.
 Light breeze from ENE
 Surface 25.1"
 Therm. attached. 55°

No. 1109 Date 15 Dec 1897
 Lucas Machine. Reel. Lucas
 Turns Cor. Depth 1552 fms
 Shot or lead 35^{lb} and Tel. tubes.
 Bottom Volcanic bottom with glob.
 Bottom temperature 36°
 No. of thermometer 98241 Cor. 6
 Corrected temperature 35.4
 Air 78° Surface 74° Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

12-55-15	1-31-40	0
56-20	30-35	100
57-25	29-35	200
58-30	28-35	300
59-30	27-45	400
1-00-35	26-40	500
1-10	25-40	600
2-15	24-40	700
3-55	23-40	800
5-05	22-40	900
6-20	21-35	1000
7-30	20-30	1100
8-40	19-30	1200
9-50	18-30	1300
11-05	17-00	1400
12-15	16-40	1500
1-12-45	1-14-45	1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. 27° 1.6' S Long. 108° 36' ✓		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

P.L. = 57.0

11-1023

No. 1775 Date 22 Dec. 1904.

Lucas Machine. Reel. Lucas.

Turns Cor. Depth 1145 fms.

Shot or lead 35 lb + 100 lbs.

Bottom fine vol. S. for Terr.

Bottom temperature 36.5°

No. of thermometer 98241 Cor. 6

Corrected temperature 33.5

Air 77° Surface 72° Drift

Trawl or dredge

An. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11: 11.45	11. 29.10	0		
03.00	28.10	100		
04.15	27.15	200		
05.15	26.25	300		
06.15	25.25	400		
07.20	24.25	500		
08.25	23.20	600		
09.30	22.15	700		
10.40	21.10	800		
11.45	20.05	900		
12.00	19.50	1000		
14.10	17.35	1100		
11: 14.50	11: 16.50	1145		
		1200		
		1300		
		1400		
		1500		
		1600		
Position		1700		
Lat. 26° 58.7' S.		1800		
Long. 109° 20.3' W.		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Veith

4817.

P.L. 62.00

No. 100

Date

Lucas

Machine.

Reel.

Lucas

Turns

Cor. +

Depth

1627 fms.

Shot or lead

35

Bottom

volc. S.

Bottom temperature

36°

No. of thermometer

98241

Cor.

6

Corrected temperature

35.4

Air

76°

Surface

74°

Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Position

Lat. 26° 54.8' S.

Long. 109° 16.4' W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Veith
4818. P.L. 67.00

No. Hy. ~~7517~~ Date 22 Dec. 04

Lucas Machine. Reel. Lucas.

Turns Cor.+ Depth 1733 fms.

Shot or lead 35 lb

Bottom Sh. br. Cg. with Glob.

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 75° Surface 74° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1-51-50	41-20	0		
52-55	40-10	100		
54-00	38-55	200		
55-05	37-35	300		
56-10	36-15	400		
57-20	34-55	500		
58-30	33-30	600		
59-45	32-05	700		
2-00-55	30-35	800		
2-10	29-05	900		
3-25	27-30	1000		
4-45	26-00	1100		
6-00	24-20	1200		
7-15	22-35	1300		
8-30	20-50	1400		
9-50	19-15	1500		
11-10	17-30	1600		
12-25	15-45	1700		
2-13-00	2-15-00	1733		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Position:

Lat. 26° 50.9'

Long. 109° 12.5'

Brought up shot

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
<i>Gentle breeze from</i>		2700		
<i>E. S. E.</i>		2800		
		2900		
<i>Barometer</i>	<i>30.75"</i>	3000		
<i>Thermometer</i>	<i>71.5°</i>	3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

Hy. No. 4517 stands for

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
<i>Surf</i>	<i>74.9</i>	<i>108156</i>	<i>-.3</i>	<i>74.6°</i>
25	<i>73.8°</i>	<i>108156</i>	<i>-.2</i>	<i>73.6°</i>
50	<i>69.1°</i>	<i>108151</i>	<i>-.3</i>	<i>68.8°</i>
100	<i>67.4°</i>	<i>104914</i>	<i>-.4</i>	<i>67.0°</i>
200	<i>56.6°</i>	<i>108025</i>	<i>-.4</i>	<i>56.2°</i>
300	<i>53.8°</i>	<i>108155</i>	<i>-.6</i>	<i>53.2°</i>
400	<i>42.0</i>	<i>104924</i>	<i>-.4</i>	<i>41.6°</i>
500				
600	<i>39.1</i>	<i>109635</i>	<i>-.45</i>	<i>38.6°</i>
700				
800	<i>37.6</i>	<i>108154</i>	<i>-.8</i>	<i>36.8°</i>
900				
1000		<i>108154</i>	<i>-.8</i>	<i>36.8°</i>

11-1024

REMARKS:

P. M.

Lowered at 3-02-00

Down to 800 fms. 3-36-00

Started to heave in 3-41-00

Up at 4-00-00

5 minutes

No. Hy. ~~4819~~ 4819

Date 22 Dec. 07

Lucas

Machine.

Reel. Lucas

Turns

Cor. +

Depth 1770 fathoms.

Shot or lead 35th and 2nd Tubes.Bottom ^{Time} Light brown vol. mud with glob.

Bottom temperature 35.9

No. of thermometer 98241

Cor.

Corrected temperature 35.3

Air 78° Surface 75° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Position</i> <i>Lat. 26° 47.3' S.</i> <i>Long. 109° 9.3' W.</i> ✓		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

p.l. at 7:56 = 89.5

No. *Dr. 5604* Date *22 Dec., 04*

Machine. Reel.

Turns

Cor. +

Depth

Shot or lead

No Sdg.

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

72°

Drift

Trawl or dredge

Surface haul - The 5 fms

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>at edge of</i>			<i>from 6 fms down and</i>	
<i>Two Reefs</i>		<i>100</i>	<i>bottom:</i>	
		<i>200</i>	<i>out.</i>	
<i>Lat. 26° 34' S.</i>		<i>300</i>	<i>5:57.10</i>	<i>8:18.00</i>
<i>Long. 108° 57.2' W.</i>		<i>400</i>		
<i>Clear overhead horizon</i>		<i>500</i>	<i>body.</i>	
<i>Lat. air from E.S.E.</i>		<i>600</i>		
<i>Heavy Sirell</i>		<i>700</i>	<i>- 10:00</i>	
<i>Thermometer 29.80</i>		<i>800</i>		
<i>Therm. at 78°</i>		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. Dr. 4695

Date 23 Dec. '04

Lucas

Machine.

Reel. Lucas

Turns

Cor.+

Depth 2020 fms.

Shot ~~or lead~~ 35 lbs. & Tel. Tubes

Bottom *Lo. 70 fms. of sounding*

Bottom temperature

No. of thermometer 78241

Cor.

Corrected temperature

Air 75° Surface 74° Drift 1/2 mile S. & E.

Trawl or dredge Intermediate Haul

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-4-30		0		
5-30	52-05	70		
6-35	51-05	100		
7-40	50-00	200		
8-40	49-00	300		
9-45	48-00	400		
10-50	47-00	500		
12-00	45-55	600		
13-10	44-50	700		
14-25	43-50	800		
15-40	42-50	900		
16-55	41-45	1000		
18-10	40-40	1100		
19-25	39-35	1200		
20-40	38-30	1300		
21-55	37-25	1400		
23-10	36-15	1500		
24-25	35-00	1600		
25-40	33-45	1700		
26-55	32-30	1800		
28-20	31-10	1900		
8-28-45	8-30-45	2000		
		2020		
		2100		
		2200		
		2300		
		2400		

*Wm. L. L. at 70 fms.
from bottom.*
A. slight drift to E. while sounding.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

Character: ...
4. br. vol. Or. spec.

from dredge haul
recorded on next
(page)

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Clear
Position 22.4
Lat 75° 20' 12" S
Long 107° 45' 28" W
Therm. attached 78°
45°

(continued)

No. 111

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

{ * 2 Butterfly nets, 10' long

Bottom

Bottom temperature

No. of thermometer

Cor. & weights.

Corrected temperature

Air

Surface

Drift all 3/4 mile S.W.

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800	//	
		1900		
		2000		
		2100	//	
		2200	15-30	
		2300	15-30	
		2400	//	

Lat. 25° 22' 14" S.
Long. 107° 00' 00" W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>* 11-34 wired to - -</i> <i>M. T. M. S.</i> <i>3300 ft. dredge</i>		2500	11-38-10	11-48-00
		2600		
		2700		
		2800	<i>Dredged 35 minutes</i>	
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

P.L. = 43.7

11-1023

No. 5 Date 24 Dec. 04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2188 fms.

Shot or lead 35 lb with T. C. T. J. J.

Bottom rd. C.

Bottom temperature 36.9

No. of thermometer 108026. Cor. 5

Corrected temperature 36.4

Air 77° Surface 75° Drift

Trawl or dredge 5' Bobbinet + 2 Kopek. in line.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8:03.10	8:58.05	0	9:07.55	0:58.00
04.20	57.05	100	11.20	52.10
05.30	57.10	200	14.45	48.00
06.35	56.15	300	18.20	44.00
07.45	55.15	400	21.15	40.00
08.55	54.15	500	24.20	36.00
10.10	52.15	600	27.20	32.00
11.20	51.15	700	30.20	28.00
12.35	51.10	800	33.20	24.00
13.50	50.05	900	36.20	20.00
15.05	49.00	1000	39.20	16.00
16.20	47.50	1100	42.20	12.00
17.40	46.45	1200	45.20	08.00
18.55	45.25	1300	48.20	04.00
20.15	44.10	1400	51.20	00.00
21.30	42.55	1500	54.20	
22.50	41.55	1600	57.20	
24.10	40.10	1700	60.20	
25.35	38.50	1800	63.20	
26.55	37.25	1900	66.20	
28.20	36.00	2000	69.20	
29.45	34.35	2100	72.20	
8:34.00	8:33.00	2200	75.20	
		2300	78.20	
		2400	81.20	

No drift while sounding.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *5044* and *5045*, Date *24 Dec. 1904*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead (*for sounding not used*)Bottom *on sounding base*

Bottom temperature /

No. of thermometer Cor.

Corrected temperature

Air *81°* Surface *70°* Drift *0.7 mi NW*Trawl or dredge *5 ft RL - (16 ft. but only 1 ft. used)*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>0:00</i>	
<i>73° 24' 25" S</i>		100	<i>10:53.00</i>	
<i>106° 02' 12" W</i>		200	<i>06.15</i>	
		300	<i>09.20</i>	
		400	<i>12.10</i>	
		500	<i>15.40</i>	
		600	<i>20.00</i>	
		700	<i>24.10</i>	
		800	<i>28.30</i>	
		900	<i>32.40</i>	
		1000	<i>37.00</i>	
		1100	<i>41.20</i>	
		1200	<i>45.40</i>	
		1300	<i>49.50</i>	
		1400	<i>54.00</i>	
		1500	<i>58.10</i>	
		1600	<i>11:02.30</i>	
		1700	<i>03.00</i>	
		1800	<i>07.10</i>	
		1900	<i>11.20</i>	
		2000	<i>15.30</i>	
		2100	<i>19.40</i>	
		2200	<i>23.50</i>	
		2300	<i>28.00</i>	
		2400	<i>32.10</i>	

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		<i>am</i> DOWN.	UP.
		2500	11: 31.50	12-04-00
		✓ 2600	11: 36.30	11-57-00
		2700		
		✓ 2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11 1023

REMARKS:

7
net bottom up. Spool bag 4 to

No. Dr. 4654

Date 4/11/75

Machine. Reel.

Turns

Cor.+

Depth

Shot or lead

Bottom No Sounding.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 76°

Surface 75^v

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
at 22 '504'	✓	0	4' 00"	7' 00"
length 15 '317'	W	100	from foot down	
with elect. light		200	attached	
		300		
		400		
		500	100 fathoms towed	
		600	in a stern	
		700	but	you
		800		
		900	towed 20 mins.	
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. Dr. 4699

Date 25th Nov. 1904.

Lucas

Machine.

Reel. Lucas

Turns

Cor. +

Depth 2168 fathoms.

Shot or lead 6

Bottom red clay.

Bottom temperature 36°

No. of thermometer 108026

Cor.

5-

Corrected temperature 35.5°

Air 76°

Surface 75°

Drift

Trawl or dredge 5'

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

11-1023
 11 Long. 104° 32.8 ✓
 Bar. 29.98

P.L. = 68.8

11-1023

Sample

No. *Dr. 4700* Date *25 Dec., 1904.*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom *No Soundings.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *75°* Surface *74°* DriftTrawl or dredge *Surface Haul.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4-ft. Surface Net</i> <i>with electric lt.,</i> <i>from port lower</i> <i>beam, and</i> <i>The two usual</i> <i>Silk Kofoids</i> <i>towing astern.</i>		0		
		100	<i>out.</i>	<i>/n.</i>
		200	<i>7:48</i>	<i>8:18</i>
		300		
		400	<i>= Towing 30 min.</i>	
		500		
		600		
		700		
		800		
<i>Lat. 20° 28' 48" S.</i> <i>Long. 103° 26' 18" W.</i> <i>Fairly clear.</i> <i>Lt. breeze from NE by N.</i> <i>Moderate Sec.</i> <i>Barometer 29.96</i> <i>Therm. att. 78°</i>		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Intermediate Haul		2500	11: 29.20	12-15-00
as before:		2600	32.25	9-50
9:03.30	9:52.00	0 2700	36.00	12 4-40
07.25	50.50	100 2800	11: 29.10	11-59-10
11.00	46.40	200 2900	Dredged 20 min.	
14.30	41.45	300 3000		
9:17.50	9:37.50	400 3100	Lat. 19° 11' 30" S. ✓ Long. 102° 24' 00" W.	
Towing 20 min.		3200		
at 300 fms. depth with		3300	Cloudy	
400 fms. cable.		3400		
Lat. 19° 10' 48" S.		3500	Lt. br. from NE by N.	
Long. 102° 24' 24" W.		3600		
Cloudy. Course, N 23° E.		3700	Moderate Sea	
Lt. br. from ENE 1.4 m.		3800		
Bar. 29.96		3900	Therm. at. 82°	
Therm. at. 81.1°		4000		
			Course, NW & E.	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	75.0°	104922	-.3	74.7°
25	72.8°	108155	-.2	72.6°
50	71.0°	109635	-.1	70.9°
100	68.8°	108154	-.3	68.5°
200	50.9°	108151	-.5	50.4°
300	44.2°	104914	-.7	43.5°
400	41.9°	108156	-.6	41.3°
500				
600	39.6°	104924	-.6	39.0°
700				
800	37.9°	108025	-.7	37.2°
900				
1000	Water Cap & Kofoid Net attached			

11-1023

REMARKS:

Lowered 1-59-00
Lower to 800 fms. 2-23-00 } 5 minutes
Started to heave in 2-28-00 }
Up at 2-51-00

De Long.

No. Dr. 4702

Date 26 Dec/04

Machine. Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

No Sounding

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 75°

Surface

73°

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

Cloudy

Light breeze NE 1/4 E.

Smooth sea

Bar. 29.93

Ther. att. 79°

Lat. 18° 39.5'

Long. 102°

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

4' Surface Net
from port boom

and 2 Kofoids

towing astern

Out In

PM

7-46-30 8-06-30

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

1760: 5240- 3
8180

$$\begin{array}{r} 29 \\ 6.7 \\ \hline 22.3 \\ 12 \\ \hline 211 \end{array}$$

1760: 8000- 4
7040